



Main

Range of product	Preventa Safety detection
Product or component type	Safety module
Safety module name	XPSCM
Safety module application	For monitoring of single beam photo-electric sensor
Function of module	Built-in muting
Safety level	Can reach category 2 conforming to EN/ISO 13849-1 with the appropriate control system and correctly wired Can reach SILCL 1 conforming to EN/IEC 62061 with the appropriate control system and correctly wired Can reach PL = c conforming to EN/ISO 13849-1 with the appropriate control system and correctly wired
Safety reliability data	MTTFd = 16.6 years conforming to EN/ISO 13849-1 DC = 95.5 % conforming to EN/ISO 13849-1 PFH = 3.12E-7 1/h conforming to EN/IEC 61508 PFHd = 3.12E-7 1/h conforming to EN/IEC 62061
Number of inputs	2 (terminal(s) MA, MB) for muting function 4 (terminal(s) Z1, Z2, Z3, Z4) for sensor
Input voltage	24 V DC (terminal(s) U+, U-) for muting function 24 V DC for sensor
Input compatibility	XC limit switch for muting function XU2M18PP340... for muting function XU2S18PP340... (infrared) for sensor XU9M18PP340... for muting function
Connections - terminals	Captive screw clamp terminals, removable terminal block, clamping capacity: 1 x 0.25...1 x 2.5 mm ² flexible cable with cable end, without bezel Captive screw clamp terminals, removable terminal block, clamping capacity: 2 x 0.2...2 x 1 mm ² solid cable without cable end Captive screw clamp terminals, removable terminal block, clamping capacity: 2 x 0.25...2 x 1 mm ² flexible cable with cable end, without bezel Captive screw clamp terminals, removable terminal block, clamping capacity: 2 x 0.5...2 x 1.5 mm ² flexible cable with cable end, with double bezel Captive screw clamp terminals, removable terminal block, clamping capacity: 1 x 0.2...1 x 2.5 mm ² solid or flexible cable without cable end Captive screw clamp terminals, removable terminal block, clamping capacity: 1 x 0.25...1 x 2.5 mm ² flexible cable with cable end, with bezel Captive screw clamp terminals, removable terminal block, clamping capacity: 2 x 0.2...2 x 1.5 mm ² flexible cable without cable end
Output type	Relay 2 NO (13-14, 23-24), volt-free
Number of additional circuits	0

Disclaimer: This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications

[Us] rated supply voltage	24 V DC (- 20...20 %)
---------------------------	-----------------------

Complementary

Sensor power supply	24 V DC (terminal(s) U+, U-)
Supply current for sensors	< 200 mA
Input current	< 200 mA for muting function
Synchronisation time between inputs	3 s (+/- 20 %) for the activation of the MA/MB muting signal
Muting maximum duration	60 s (- 10...30 %)
Line resistance	<= 10 Ohm for sensor power supply
Breaking capacity	C300 : holding 180 VA AC-15 for relay output C300 : inrush 1800 VA AC-15 for relay output
Breaking capacity	1.5 A / 24 V - L/R = 50 ms, DC-13 for relay output 20 mA / 24 V for solid state output
Associated fuse rating	4 A gG for relay output conforming to DIN VDE 0660 part 200 4 A gG for relay output conforming to EN/IEC 60947-5-1 6 A fast blow for relay output conforming to DIN VDE 0660 part 200 6 A fast blow for relay output conforming to EN/IEC 60947-5-1
Minimum output current	10 mA for relay output
Minimum output voltage	17 V for relay output
Response time on input open	<= 25 ms
Local signalling	1 LED, function electronic internal fuse status 1 LED, function restarting 1 LED, function safety outputs closed 1 LED, function safety outputs open 1 incandescent lamp, function muting power consumption: 4...6.5 W
Output thermal current	11 A maximum 5.6 A per relay
Power consumption in W	<= 15 W
Protection type	Electronic internal fuse
[Ui] rated insulation voltage	300 V, degree of pollution 2 conforming to EN/IEC 60947-5-1 300 V, degree of pollution 2 conforming to DIN VDE 0110 parts 1 and 2
[Uimp] rated impulse withstand voltage	4 kV overvoltage category III, conforming to EN/IEC 60947-5-1 4 kV overvoltage category III, conforming to DIN VDE 0110 parts 1 and 2

Environment

Ambient air temperature for operation	-10...55 °C
Ambient air temperature for storage	-25...85 °C
IP degree of protection	IP20(terminals) conforming to IEC 60529 IP40(enclosure) conforming to IEC 60529

Contractual warranty

Warranty period	18 months
-----------------	-----------

Dimensions

